CLAIMS

1. A compound according to formula I

$$(R^{1})_{m}$$
 P
 X^{2}
 X^{3}
 X^{4}
 Q
 $(R^{2})_{n}$
 Q
 $(R^{2})_{n}$
 Q

s wherein

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P is selected from aryl and heteroaryl;

R¹ is attached to P via a carbon atom on ring P and is selected from the group consisting of hydroxy, halo, nitro, C₁₋₆alkylhalo, OC₁₋₆alkylhalo, C₁₋₆alkyl, OC₁₋₆alkyl, C₂₋₆alkenyl, OC₂₋₆alkenyl, OC₂₋₆alkynyl, OC₂₋₆alkynyl, C₀₋₆alkylC₃₋₆cycloalkyl, OC₀₋₆alkylC₃₋₆cycloalkyl, C₀₋₆alkylaryl, OC₀₋₆alkylaryl, CHO, (CO)R⁵, O(CO)R⁵, O(CO)OR⁵, O(CNR⁵)OR⁵, C₁₋₆alkylOR⁵, OC₂₋₆alkylOR⁵, C₁₋₆alkyl(CO)R⁵, OC₁₋₆alkyl(CO)R⁵, C₀₋₆alkylCO₂R⁵, OC₁₋₆alkylCO₂R⁵, OC₁₋₆alkylCO₂R⁵, C₀₋₆alkylcyano, OC₂₋₆alkylcyano, C₀₋₆alkylNR⁵R⁶, OC₂₋₆alkylNR⁵R⁶, C₁₋₆alkyl(CO)NR⁵R⁶, OC₁₋₆alkylNR⁵(CO)R⁶, OC₂₋₆alkylNR⁵(CO)R⁶, OC₂₋₆alkylNR⁵(CO)R⁶, OC₂₋₆alkylNR⁵(CO)R⁵, OC₂₋₆alkylSO₂R⁵, OC₂₋₆alkylSO₂R⁵, C₀₋₆alkylSO₂NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(CO)OR⁶, SO₃R⁵ and a 5-for 6-membered ring containing atoms independently selected from the group consisting of C, N, O and S;

20 X¹ is selected from the group consisting of: N, NR⁴ and CR⁴;

X² is selected from the group consisting of: C and N;

X³ is selected from the group consisting of: CR⁴, N and O;

X⁴ is selected from the group consisting of: CR⁴, N, NR⁴ and O;

X⁵ is selected from the group consisting of: a bond, CR⁴R⁴, NR⁴, O, S, SO and SO₂; X⁶ is selected from the group consisting of: CR⁴ and N;

X⁷ is selected from the group consisting of: C and N;

by one or more A:

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R⁴ is independently selected from a group consisting of hydrogen, hydroxy, C₁₋₆alkyl, C₀₋₆alkylcyano, oxo, =NR⁵, =NOR⁵, C₁₋₄alkylhalo, halo, C₃₋₇cycloalkyl, O(CO)C₁₋₄alkyl, C₁₋₄alkyl, C₁₋₄alkyl(SO)C₀₋₄alkyl, (SO)C₀₋₄alkyl, (SO₂)C₀₋₄alkyl, OC₁₋₄alkyl, C₁₋₄alkyl, C₁₋₄alkylNR⁵R⁶;

Q is selected the group consisting of heterocycloalkyl and heteroaryl;

R² and R³ are independently selected from the group consisting of: hydrox y, C₀.

6alkylcyano, oxo, =NR⁵, =NOR⁵, C₁₋₄alkylhalo, halo, C₁₋₆alkyl, C₃₋₆cycloal kyl, C₀.

6alkylaryl, C₀₋₆alkylheteroaryl, C₁₋₆alkylcycloalkyl, C₀₋₆alkylheterocycloalkyl, OC₁₋₄alkyl,

OC₀₋₆alkylaryl, O(CO)C₁₋₄alkyl, (CO)OC₁₋₄alkyl, C₀₋₄alkyl(S)C₀₋₄alkyl, C₁₋₄alkyl(SO)C₀.

4alkyl, C₁₋₄alkyl(SO₂)C₀₋₄alkyl, (SO)C₀₋₄alkyl, (SO₂)C₀₋₄alkyl, C₁₋₄alkylOR⁻⁵, C₀₋₄alkylNR⁵R⁶ and a 5- or 6-membered ring containing atoms independently selected from C,

N, O and S, which ring may optionally be fused with a 5- or 6-membered ring containing atoms independently selected from the group consisting of C, N and O and wherein said ring and said fused ring may be substituted by one or more A;

wherein any C₁₋₆alkyl, aryl, or heteroaryl defined under R¹, R² and R³ may be substituted

A is selected from the group consisting of: hydrogen, hydroxy, halo, nitro, oxo, C₀.

6alkylcyano, C₀₋₄alkylC₃₋₆cycloalkyl, C₁₋₆alkyl, -OC₁₋₆alkyl, C₁₋₆alkylhalo, OC₁₋₆alkylhalo,

C₂₋₆alkenyl, C₀₋₃alkylaryl, C₀₋₆alkylOR⁵, OC₂₋₆alkylOR⁵, C₀₋₆alkylSR⁵,

(CO)R⁵, O(CO)R⁵, OC₂₋₆alkylcyano, OC₁₋₆alkylCO₂R⁵, O(CO)OR⁵, OC₁₋₆alkyl(CO)R⁵, C₁₋₆alkyl(CO)R⁵, NR⁵OR⁶, C₀₋₆NR⁵R⁶, OC₂₋₆alkylNR⁵R⁶, C₀₋₆alkyl(CO)NR⁵R⁻⁶, OC₁₋₆alkyl(CO)NR⁵R⁻⁶, OC₁₋₆alkylNR⁵(CO)R⁶, C₀₋₆alkylNR⁵(CO)NR⁵R⁶,

O(CO)NR⁵R⁶, O₀₋₆alkyl(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)NR⁵R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁶, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkyl(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)NR⁵R⁶, OC₂₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆alkylNR⁵(SO₂)R⁵, C₀₋₆al

6alkyl(SO₂)R⁵, C₀₋₆alkyl(SO)R⁵, OC₂₋₆alkyl(SO)R⁵ and a 5- or 6-membered ring containing atoms independently selected from the group consisting of C, N, O and S;

 R^5 and R^6 are independently selected from, H, C_{1-6} alkyl, C_{3-7} cycloalkyl and aryl;

m is selected from 0, 1, 2, 3 or 4;

n is selected from 0, 1, 2, 3 or 4;

p is selected from 0, 1, 2, 3 or 4; and

a salt or hydrate thereof,

with the proviso that the compound is not:

4,4'-(1,2-piperazinediyl)di-antipyrine;

- 4,4'-(1,2-piperazinediyl)di-antipyrine dihydrochloride; or
 - 4,4'-(1,2-piperazinediyl)di-antipyrine dipicrate;
 - 2. A compound according to claim 1 wherein m is selected from 1, 2, 3 or 4
 - 3. A compound according to claim 1 wherein X^7 is C.
 - 4. A compound according to claim 1 wherein X⁵ is selected from the group consisting of CR⁴R⁴, NR⁴, O, S, SO and SO₂.
 - 5. A comound according to claim 1 wherein X^3 is selected from the group consi sting of N and O.
 - 6. A compound according to claim 1 wherein P is aryl.
 - 7. A compound according to claim 6 wherein P is phenyl.
- 8. A compound according to claim 7 wherein m is selected from the group constisting of 1 and 2.
 - 9. A compound according to claim 1 wherein R¹ is selected from the group consisting of: halo, C₁₋₆alkylhalo, OC₁₋₆alkylhalo, C₁₋₆alkyl, OC₁₋₆alkylOR⁵, C₀₋₆alkyloR⁵, C₀₋₆alkylNR⁵R⁶.

10. A compound according to claim 9 wherein R¹ is selected from the group consisting of: Cl, F, Me, OMe, CF₃, OCF₃, and CN.

- 11. A compound according to claim 1 wherein X² is C.
- 12. A compound according to claim 11 wherein X¹ is N or CR⁴.
- 13. A compound according to claim 12 wherein when X³ is O, X⁴ is N and when X³ is N, X⁴ is O.
 - 14. A compound according to claim 1 wherein X² is N.
 - 15. A compound according to claim 14 wherein X¹ is N.
 - 16. A compound according to claim 15 wherein X³ is N and X⁴ is N or CR⁴.
- 17. A compound according to claim 1 wherein X⁶ is N.
 - 18. A compound according to claim 12 wherein X^5 is selected from the group consisting of a bond, CR^4R^4 , NR^4 and O.
 - 19. A compound according to claim 13 wherein X⁵ is selected from the group consisting of a bond, O and NR⁴.
- 20. A compound according to claim 16 wherein X⁵ is selected from the group consisting of O and CR⁴.
 - 21. A compound according to claim 1 wherein R^4 is selected from the group consisting of: hydrogen, C_{1-6} alkyl, C_{1-6} alkylhalo and halo.
 - 22. A compound according to claim 1 wherein Q is heteroaryl.
- 23. A compound according to claim 1 wherein Q is selected from the group consisting of:

a)
$$N-N$$
, b) X^{6} , $N-N$, and c) $N-N$

24. A compound according to claim 23 wherein Q is

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- 25. A compound according to claim 1 wherein R^2 and R^3 are independently selected from the group consisting of: C_{1-4} alkylhalo, C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{0-6} alkylaryl and C_{0-6} alkylheteroaryl.
- 26. A compound according to claim 1 wherein A is selected from the group consisting of: hydrogen, hydroxyl, halo, C₀₋₆alkylcyano, C₁₋₆alkyl, -OC₁₋₆alkyl, C₁₋₆alkylhalo, OC₁₋₆alkylhalo.
 - 27. A compound according to claim 1 selected from:
- 4-(5-{2-[5-(3-Chloro-phenyl)-isoxazol-3-yl]-piperidin-1-yl}-4-methyl-4H [1,2,4]triazol-3-yl)-pyridine
 - 3-[5-(3-Chloro-phenyl)-isoxazol-3-yl]-4-(4-methyl-5-pyridin-4-yl-4H-[1,2,4]triazol-3-yl)-morpholine
 - 3-[5-(3-Chloro-phenyl)-isoxazol-3-yl]-4-[5-(4-difluoromethoxy-phenyl)-4-methyl-4H-[1,2,4]triazol-3-yl]-morpholine
- 3-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-4-(4-methyl-5-pyridin-4-yl-4H-[1,2,4]triazol-3-yl)-morpholine
 - 3-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-4-[5-(4-difluoromethoxy-phenyl)-4-methyl-4H-[1,2,4]triazol-3-yl]-morpholine
 - 3-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-4-(4-methyl-5-pyridin-4-yl-4H-
- 20 [1,2,4]triazol-3-yl)-piperazine-1-carboxylic acid tert-butyl ester
 - 2-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-1-(4-methyl-5-pyridin-4-yl-4H-1,2,4]triazol-3-yl)-piperazine
 - 2-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-4-methyl-1-(4-methyl-5-pyridin-4-yl-4H-[1,2,4]triazol-3-yl)-piperazine

3-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-4-[5-(4-difluoromethoxy-phenyl)-4-methyl-4H-[1,2,4]triazol-3-yl]-piperazine-1-carboxylic acid tert-butyl ester

- 2-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-1-[5-(4-difluoromethoxy-phenyl)-4-methyl-4H-[1,2,4]triazol-3-yl]-piperazine
- 5 2-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-1-[5-(4-difluoromethoxy-phenyl)-4-methyl-4H-[1,2,4]triazol-3-yl]-4-methyl-piperazine
 - 2-[2-(3-Chlorophenyl)-2H-tetrazol-5-yl]-1-{5-[4-(difluoromethoxy)phenyl]-4-methyl-4H-1,2,4-triazol-3-yl}piperidine
- 4-(5-{2-[2-(3-chlorophenyl)-2H-tetrazol-5-yl]piperidin-1-yl}-4-methyl-4H-1,2,4-triazol-3-yl)pyridine
 - 2-[2-(3-Chlorophenyl)-2H-tetrazol-5-yl]-1-[5-(4-methoxyphenyl)-4-methyl-4H-1,2,4-tria-zol-3-yl]piperidine
 - [4-(5-{2-[2-(3-chlorophenyl)-2H-tetrazol-5-yl]piperidin-1-yl}-4-methyl-4H-1,2,4-triazol-3-yl)phenyl]dimethylamine
- [4-(5-{2-[2-(3-Chloro-phenyl)-2H-tetrazol-5-yl]-piperidin-1-yl}-4-methyl-4H-[1,2,4]triazol-3-yl)-benzyl]-dimethyl-amine
 - {2-[4-(5-{2-[2-(3-Chloro-phenyl)-2H-tetrazol-5-yl]-piperidin-1-yl}-4-methyl-4H-[1,2,4]triazol-3-yl)-phenoxy]-ethyl}-dimethyl-amine
- (R)-3-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-4-(4-methyl-5-pyridin-4-yl-4H-20 [1,2,4]triazol-3-yl)-morpholine
 - (S) 3-[3-(3-Chloro-phenyl)-[1,2,4]oxadiazol-5-yl]-4-(4-methyl-5-pyridin-4-yl-4H-[1,2,4]triazol-3-yl)-morpholine
 - $\label{eq:continuous} $$(R)-2-[2-(3-Chlorophenyl)-2H-tetrazol-5-yl]-1-\{5-[4-(difluoromethoxy)phenyl]-4-methyl-4H-1,2,4-triazol-3-yl\} piperidine$
- 25 (S)-2-[2-(3-Chlorophenyl)-2H-tetrazol-5-yl]-1-{5-[4-(difluoromethoxy)phenyl]-4-methyl-4H-1,2,4-triazol-3-yl}piperidine

 $\label{eq:continuous} $$(R)-4-(5-\{2-[2-(3-Chlorophenyl)-2H-tetrazol-5-yl]piperidin-1-yl\}-4-methyl-4H-1,2,4-tria-zol-3-yl)pyridine$

- $(S)-4-(5-\{2-[2-(3-Chlorophenyl)-2H-tetrazol-5-yl]piperidin-1-yl\}-4-methyl-4H-1,2,4-tria-zol-3-yl)pyridine \\$
- 4-[5-(5-{2-[5-(3-Chloro-phenyl)-isoxazol-3-yl]-pyrrolidin-1-yl}-4-cyclopropyl-4H-[1,2,4]triazol-3-yl)-pyridin-2-yl]-morpholine,
 - 4-[5-(5-{2-[5-(3-Chloro-phenyl)-isoxazol-3-yl]-pyrrolidin-1-yl}-4-methyl-4H-[1,2,4]triazol-3-yl)-pyridin-2-yl]-morpholine,
- 3-(5-{2-[5-(3-Chloro-phenyl)-isoxazol-3-yl]-pyrrolidin-1-yl}-4-methyl-4H-[1,2,4]triazol-3-yl)-pyridine,
 - 4-(5-{2-[5-(3-Chloro-phenyl)-isoxazol-3-yl]-pyrrolidin-1-yl}-4-cyclopropyl-4H-[1,2,4]triazol-3-yl)-pyridine,
 - 3-[5-(3-Chloro-phenyl)-[1,2,4]oxadioazol-3-yl]-4-(5-pyridin-4-yl-4H-[1,2,4]triazol-3-yl)-morpholine,
- 3-[5-(3-chlorophenyl)isoxazol-3-yl]-4-(4- cyclopropyl-5-pyridin-3-yl-4H-1,2,4-triazol-3-yl)morpholine,
 - 3-[5-(3-chlorophenyl)isoxazol-3-yl]-4-(4- cyclopropyl -5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)morpholine,
- 3-[5-(3-chlorophenyl)isoxazol-3-yl]-4-(4-methyl-5-pyridin-3-yl-4H-1,2,4-triazol-3-yl)morpholine,
 - 3-[5-(3-Chloro-phenyl)-isoxazol-3-yl]-4-[5-(6-methoxy-pyridin-3-yl)-4-methyl-4H-[1,2,4]triazol-3-yl]-morpholine,
 - 3-[3-(3-chlorophenyl)-1,2,4-oxadiazol-5-yl]-4-[5-(2-methoxypyridin-4-yl)-4-methyl-4H-1,2,4-triazol-3-yl]morpholine,
- 3-[3-(3-chlorophenyl)-1,2,4-oxadiazol-5-yl]-4-[5-(2-methylpyridin-4-yl)-4-methyl-4H-1,2,4-triazol-3-yl]morpholine,

3-[3-(3-chlorophenyl)-1,2,4-oxadiazol-5-yl]-4-[5-(5-fluoropyridin-3-yl)-4-methyl-4H-1,2,4-triazol-3-yl]morpholine,

- 3-[5-(3-chlorophenyl) is oxazol-3-yl]-4-[5-(5-fluoropyridin-3-yl)-4-methyl-4H-1,2,4-triazol-3-yl] morpholine,
- 5 3-[3-(3-chlorophenyl)-1,2,4-oxadiazol-5-yl]-4-(4-methyl-5-pyridin-2-yl-4H-1,2,4-triazol-3-yl)morpholine,
 - 4-[5-(5-fluoropyridin-3-yl)-4-methyl-4H-1,2,4-triazol-3-yl]-3-[3-(3-iodophenyl)-1,2,4-oxadiazol-5-yl]morpholine,
- 3-[3-(3-iodophenyl)-1,2,4-oxadiazol-5-yl]-4-(4-methyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)morpholine,
 - 3-[5-(3-chlorophenyl)isoxazol-3-yl]-4-[5-(2-methylpyridin-4-yl)-4-methyl-4H-1,2,4-triazol-3-yl]morpholine,
 - 3-[2-(3-chlorophenyl)-2H-tetrazol-5-yl]-4-(4-methyl-5-pyridin-3-yl-4H-1,2,4-triazol-3-yl)morpholine,
- 3-[2-(3-chlorophenyl)-2H-tetrazol-5-yl]-4-[5-(3,5-difluorophenyl)-4-methyl-4H-1,2,4-triazol-3-yl]morpholine,
 - 3-(5-{2-[5-(3-chlorophenyl)isoxazol-3-yl]pyrrolidin-1-yl}-4-cyclopropyl-4H-1,2,4-triazol-3-yl)pyridine, and
 - 4-(5-{2-[5-(3-chlorophenyl)isoxazol-3-yl]pyrrolidin-1-yl}-4-methyl-4H-1,2,4-triazol-3-yl)pyridine.
 - 28. A pharmaceutical composition comprising as active ingredient a therapeutically effective amount of the compound according to any one of claims 1 to 26, in association with one or more pharmaceutically acceptable diluent, excipients and/or inert carrier.
- 29. The pharmaceutical composition according to claim 28, for use in the treatment of mGluR 5 mediated disorders.
 - 30. The compound according to any one of claims 1 to 27, for use in therapy.

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31. The compound according to any one of claims 1 to 27, for use in treatment of mGluR 5 mediated disorders.

- 32. Use of the compound according to any one of claims 1 to 27, in the manufacture of a medicament for the treatment of mGluR 5 mediated disorders.
- 33. A method of treatment of mGluR 5 mediated disorders, comprising administrering to a mammal, including man in need of such treatment, a therapeutically effective amount of the compound according to any one of claims 1 to 27.
 - 34. The method according to claim 33, for use in treatment of neurological disorders.
 - 35. The method according to claim 33, for use in treatment of psychiatric disorders.
- 36. The method according to claim 33, for use in treatment of chronic and acute pain disorders.
 - 37. The method according to claim 33, for use in treatment of gastrointestinal disorders.
 - 38. A method for inhibiting activation of mGluR 5 receptors, comprising treating a cell containing said receptor with an effective amount of the compound according to claim 1.